COMD-19 Overview and Infection

Prevention and Control Priorities in non-US Healthcare Settings



Outline

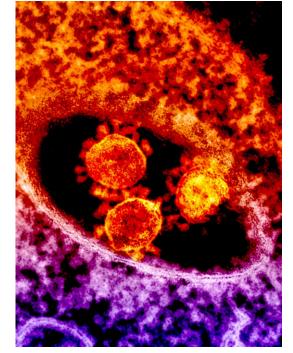
- · Coronavirus Background
- · Coronavirus Disease 2019 (COVID-19)
 - Emergence of COVID-19
 - Transmission
 - Symptoms
- · COVID-19 Prevention and Treatment
- Infection Prevention and Control (IPC) for COVID-19

Coronavirus Background



Coronaviruses (CoV)

- Coronaviruses are a large family of viruses that can cause illness in animals or humans
- In humans, several known coronaviruses can cause
 respiratory infections



Ranging from the common cold to more severe

Coronavirus Disease 2019 (COVID-19)



COVID-19: Emergence

- Identified in Wuhan, China in December 2019
- COVID-19 is caused by the virus SARS-CoV-2
- Early in the outbreak,
 many patients were
 - ported to have a link to a



https://www.healthpolicy-watch.org/

COVID-19: Transmission

- The primary transmission of COVID-19 is from person to person through respiratory droplets
 - Droplets are released when someone sneezes or coughs
 - It can also be spread when you're in close contact with someone who is sick (e.g., shaking hands or talking)



COVID-19: Symptoms

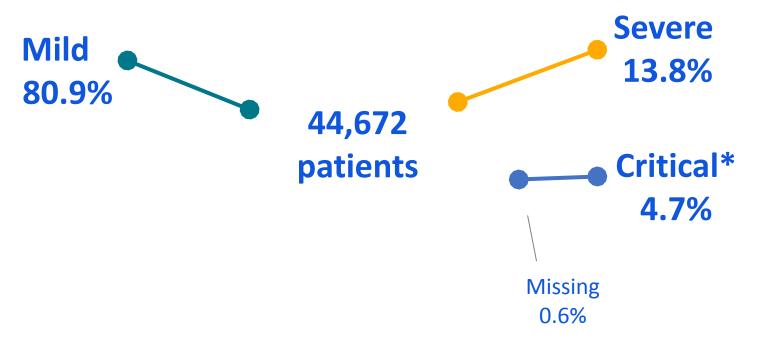
- Wide range of symptoms reported*
 - Fever
 - Cough
 - Shortness of breath or difficulty breathing
 - Headache
 - Nasal congestion
 - Muscle pain
 - Sore throat
 - Loss of smell or taste
 - Diarrhea (may be present in some patients)







COVID-19: Illness Severity - China through 11-Feb-2020





* 1,023 (49%) deaths among 2,087 critically ill patients

COVID-19: People at higher

- · In some cases, people Who get covid-19 can become seriously ill and develop difficulty breathing
 - These severe complications can lead to death
- · Older adults (>50 years of age) and those with underlying medical conditions such as those who are immunocompromised or have serious heart problems or chronic lung disease are

COVID-19 Prevention and Treatment



COVID-19: Everyday

- · Avoid Aren Ming No are Live Spinese, Linans mouth
- Avoid close contact with people who are sick
 - Remember that people without symptoms can still spread the viru
- · Stay at home when you are sick
- Cover your cough or sneeze with a issue, then dispose of it properly

COVID-19: Treatment

- Currently, care for patients is primarily supportive:
 - Relieve symptoms
 - Manage respiratory, and other organ, failure
- There are no specific antiviral treatments currently licensed for COVID-19
 - Many treatments are under investigation
 - Remdesivir, which is also an investigational drug

Infection Prevention and Control (IPC) for COVID-19



What is IPC?

- The practice of preventing or stopping the spread of infections during healthcare delivery
 - Hospitals, outpatient clinics, dialysis centers, long-term care facilities, traditional practitioners

IPC Goal for COVID-19: To support the maintenance of essential healthcare services
 y containing and preventing COVID-19

COVID-19: IPC Priorities

- · Rapid identification of suspect cases
 - Screening/triage at initial healthcare facility encounter and rapid implementation of source control
 - Limiting entry of healthcare workers and/or visitors with suspected or confirmed COVID-19
- · Immediate isolation and referral for testing
 - Cohort of patients with suspected or confirmed COVID-19 separately
 - Discontinuing isolation for those clinically improved who are negative by PCR
- · Safe clinical management
 - Immediate identification of inpatients and healthcare workers with suspected
 COVID-19



Standard and Transmission-Standard Recadure Cautions

 Set of practices that apply to care of all patients in all healthcare settings

- Transmission-Based Precautions
 - Set of practices specific for patients with known or suspected infectious agents that require additional control measures to prevent transmission

Standard Precautions

- · Hand hygiene
- Personal protective equipment (PPE)
- Respiratory hygiene and cough etiquette
- · Cleaning and disinfection of devices





COVID-19: Transmission Based Precautions Wear PPE for contact and droplet

- Wear PPE for contact and droplet precautions*
 - Unless an aerosol-generating procedure is performed, in which case airborne precautions are needed
- Use disposable or dedicated patient care equipment (e.g., stethoscopes, blood pressure

COVID-19: Transmission-

- Use adequately ventilated in the common variation or dedicated COVID-19 ward rooms
- Avoid transporting COVID-19 patients out of room unless medically necessary
 - Place a mask on COVID-19 suspected or confirmed patients if transport out of a room is medically necessary
 - Healthcare workers should wear appropriate PPE during

 transport www.who.int/publications-detail/rational-use-of-personal-protective-equipment-for-coronavirus-disease-(covid-19)-and-considerations-during-severe-shortages



COVID-19: PPE

- · Healthcare workers should:
 - Use a medical mask (i.e., at least a surgical/medical mask)
 - ✓ N95 respirator for aerosol-generating procedure
 - Wear eye protection (goggles) or facial protection (face shield)
 - Wear a clean, non-sterile, long-sleeved gown
 - Use gloves
- Healthcare workers should be trained on correct use of PPE, including putting on and taking off PPF





Extended use and re-use of certain PPE items (e.g., mask, gown)

can be considered if sunnly shortage

Aerosol-Generating Procedures Recommendations for

- Endotracheal intubation
- · Bronchoscopy
- Non-invasive ventilation
- · Tracheostomy
- Manual ventilation before intubation
- Cardiopulmonary resuscitation

Recommendations for aerosol-generating procedures performed on COVID-19 patients:

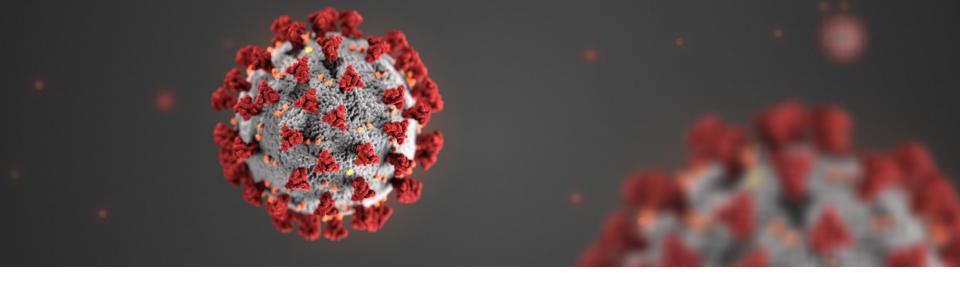
- A fitted respirator (N95, FFP2, or equivalent) as opposed to surgical/medical masks
- Gloves
- Gown
- Eye protection (goggles/face shield)



Infection Prevention and

- · Strategic Priority Resolvities for Containment an
- · Triages ID-19 in non-US
- · Identification of the althography and Inpatient
- · Management of Visitors to Healthcare Facilities
- · Interim Operational Considerations for Public Heal





For more information, contact CDC 1-800-CDC-INFO (232-4636) TTY: 1-888-232-6348 www.cdc.gov

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

